App. No. 10/658,089; Filed: September 9, 2003 Response to Office Action of June 19, 2009

CLAIM LISTING

This listing of claims will replace all prior versions, and listings, of claims in the application:

- (Currently Amended) A <u>spinal</u> prosthesis assembly, to replace a cephalad portion
 of a left natural facet joint on a vertebral body and a cephalad portion of a right natural facet joint
 on a vertebral body, the prosthesis assembly comprising;
- a left prosthesis body; accommodating fixation to the vertebral body at or near a left pedicle and without support by a lamina,

a left pedicle anchor coupled to the left prosthesis body;

an artificial left facet joint structure carried by the left prosthesis body; adapted and configured to replace a cephalad portion of the left natural facet joint,

a right prosthesis body; accommodating fixation to the vertebral body at or near a left pedicle and without support by a lamina, and

a right pedicle anchor coupled to the right prosthesis body; and

an artificial right facet joint structure carried by the right prosthesis body, adapted and configured to replace a cephalad portion of the right natural facet joint the artificial left and right facet joint structures each being configured to articulate with another spinal prosthesis assembly or with a natural articular process of an adjoining pedicle.

- (Original) A prosthesis assembly according to claim 1 wherein at least one of
 the artificial left and right facet joint structures is fixed to the respective one of the left and right
 prosthesis bodies.
- (Original) A prosthesis assembly according to claim 1 wherein at least one of
 the artificial left and right facet joint structures is fixed to the respective one of the left and right
 prosthesis bodies by an adhesive or cement.
- 4. (Original) A prosthesis assembly according to claim 1 wherein at least one of the artificial left and right facet joint structures is fixed to the respective one of the left and right prosthesis bodies by mechanical attachment.

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(Original) A prosthesis assembly according to claim 1 wherein at least one of
the artificial left and right facet joint structures is removably carried by the respective one of the

left and right prosthesis bodies.

6. (Original) A prosthesis assembly according to claim 1 wherein at least one of

the artificial left and right facet joint structures is removably attached to the respective one of the

left and right prosthesis bodies by frictional engagement.

(Original) A prosthesis assembly according to claim 1 wherein at least one of

the artificial left and right facet joint structures is removably attached to the respective one of the

left and right prosthesis bodies by a Morse taper.

8. (Original) A prosthesis assembly according to claim 1 wherein at least one of

the artificial left and right facet joint structures comprises an insert fitted to the respective one of

the left and right prosthesis bodies.

9. (Original) A prosthesis assembly according to claim 1 wherein at least one of

the artificial left and right facet joint structures comprises an insert fitted by frictional

engagement to the respective one of the left and right prosthesis bodies.

10. (Original) A prosthesis assembly according to claim 1 wherein at least one of

the artificial left and right facet joint structures comprises an insert fitted by a Morse taper to the

respective one of the left and right prosthesis bodies.

11. (Original) A prosthesis assembly according to claim 1 wherein at least one of

the artificial facet joint structures comprises a removable insert fitted to the respective one of the

left and right prosthesis bodies.

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12. (Original) A prosthesis assembly according to claim 1 wherein at least one of the artificial left and right facet joint structures pivots with respect to the respective one of the left and right prosthesis bodies.

13. (Canceled)

- 14. (Currently Amended) A prosthesis assembly according to claim 43 1 wherein the fastening element includes left and right pedicle anchors include a screw adapted to be installed within the vertebral body at or near a pedicle.
- 15. (Currently Amended) A prosthesis assembly according to claim 43 1 wherein the fastening element includes left and right pedicle anchors include a stem adapted to be installed within the vertebral body at or near a pedicle.
- (Currently Amended) A prosthesis assembly according to claim 43 1 wherein the fastening element includes left and right pedicle anchors include means for resisting rotation after installation in the vertebral body.
- 17. (Original) A prosthesis assembly according to claim 1 wherein at least one of the prosthesis bodies is fixed to the vertebral body by an adhesive or cement.
- (Original) A prosthesis assembly according to claim 1 wherein the prosthesis body includes a bony in-growth material.

19.-32. (Canceled)

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- 33. (Original) A prosthesis assembly according to claim 1 wherein a connecting member ions the left and right prosthesis bodies without support by a lamina.
- 34. (Currently Amended) A prosthesis assembly according to claim 1 wherein at least one of the left and right prosthesis bodies includes a fastening element installed within the vertebral body at or near a pediele, and wherein the at least one left and right prosthesis body includes bodies include a caudal region that extends from the fastening element pedicle anchors toward a cephalad portion of the respective one of the left and right natural facet joints.
- 35. (Original) A prosthesis according to claim 34 wherein the respective one of the artificial left and right facet joint structures is carried on the caudal region and is adapted and configured to replace a natural articular process of a cephalad portion of the respective one of the left and right natural facet joints.
- 36. (Original) A prosthesis assembly according to claim 35 wherein the respective one of the artificial left and right facet joint structures is fixed to the caudal region.
- 37. (Original) A prosthesis assembly according to claim 35 wherein the respective one of the artificial left and right facet joint structures is fixed to the caudal region by an adhesive or cement.
- 38. (Original) A prosthesis assembly according to claim 35 wherein the respective one of the artificial left and right facet joint structures is fixed to the caudal region by mechanical attachment.
- 39. (Original) A prosthesis assembly according to claim 35 wherein the respective one of the artificial left and right facet joint structures is removably carried by the caudal region.

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40. (Original) A prosthesis assembly according to claim 35 wherein the respective one of the artificial left and right facet joint structures is removably attached to the caudal region by

frictional engagement.

41. (Original) A prosthesis assembly according to claim 35 wherein the respective one of

the artificial left and right facet joint structures is removably attached to the caudal region by a

Morse taper.

42. (Original) A prosthesis assembly according to claim 35 wherein the respective one of

the artificial left and right facet joint structures comprises an insert fitted to the caudal region.

43. (Original) A prosthesis assembly according to claim 35 wherein the respective one of

the artificial left and right facet joint structures comprises an insert fitted by frictional

engagement to the caudal region.

44. (Original) A prosthesis assembly according to claim 35 wherein the respective one of

the artificial left and right facet joint structures comprises an insert fitted by a Morse taper to the

caudal region.

45. (Original) A prosthesis assembly according to claim 35 wherein the respective one of

the artificial facet joint structures comprises a removable insert fitted to the caudal region.

46. (Original) A prosthesis assembly according to claim 1 wherein at least one of the

artificial left and right facet joint structures pivots with respect to the respective one of the left

and right prosthesis bodies.

47. (Canceled)

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48. (Original) A prosthesis assembly according to claim 1 wherein at least one of the artificial left and right facet joint structures is made of at least one selected prosthetic material.

49. (Currently Amended) A prosthesis assembly according to claim [[1]] 48 wherein the selected prosthetic material includes polyethylene, rubber, tantalum, titanium, chrome cobalt, surgical steel, bony in-growth material, artificial bone, or any combination thereof.

50. (Withdrawn) A method of replacing, on a vertebral body, all or a portion of a cephalad portion of left natural facet joint and all or a portion of a cephalad portion of a right natural facet joint using the prosthesis assembly defined in claim 1 to provide improved support for the spinal column, the method comprising the steps of (i) removing all or a portion of the cephalad portions of the left and right natural facet joints from the vertebral body, and (ii) fixing the prosthesis assembly as defined in claim 1 to the vertebral body to replace both removed cephalad portions of the left and right natural facet joints with the artificial facet joint structure.

- 51. (Withdrawn) A method according to claim 50 further including a step of removing at least part of an accessory process from the vertebral body.
- 52. (Withdrawn) A method according to claim 50 further including a step of removing at least part of a transverse process from the vertebral body.
- 53. (Withdrawn) A method according to claim 50 further including a step of removing at least part of a pedicle from the vertebral body.